



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

November 01, 2013

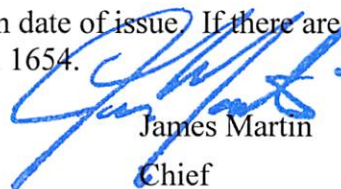
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1701917, issued to CNX GAS COMPANY LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: DTI 01115
Farm Name: KEY OIL COMPANY, ET AL
API Well Number: 47-1701917
Permit Type: Plugging
Date Issued: 11/01/2013

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

1701917A

WW-4B
Rev. 2/01

1) Date October 8, 2013
2) Operator's
Well No. 1115
3) API Well No. 47-017 - 01917

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X/ Liquid injection ____/ Waste disposal ____/
(If "Gas, Production X or Underground storage ____) Deep ____/ Shallow X

5) Location: Elevation 1,245.28 Watershed Middle Island Creek
District West Union 08 County Doddridge 17 Quadrangle West Union 671

6) Well Operator CNX Gas Company LLC 7) Designated Agent Jeremy Jones
Address P.O. Box 1248 Address P.O. Box 1248
Jane Lew, WV Jane Lew, WV

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Douglas Newlon Name See Attached
Address 4060 Dutchman Road Address _____
McFarlan, WV 26148

10) Work Order: The work order for the manner of plugging this well is as follows:
See attached work order

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector

Douglas Newlon

Date

10-16-2013

Received
OCT 18 2013
Office of Oil and Gas
Environmental Protection

Plugging Work Order for Permit 47-017-01917 ^P

WN 1115

1. Verify TD 2178', Load Hole
2. Pull 2.375" Tubing & Packer@2060'.
3. Pull 7.00" Casing & Packer@2053'.
4. Attempt to Pull 10.75" csg, if unable to pull then perforate csg at 1100, 730', 200'
5. TIH w/2.375 Tubing to TD *59. PUMP CEMENT PLUG FROM 2178' - 2078' DISPLACE W/ GEL.*
6. Pump Cement Plug from 1800' - TD'
7. Displace with 6% Gel
8. Pump Cement Plug from 1200' to 1300' *11-11*
9. Displace with 6% Gel
10. Pump Cement Plug from 630' to 730' *✓ 10-11*
11. Displace with 6% Gel
12. Pump Cement Plug from 0 to 200'
13. Install 7" x 4' monument API 47-017-01917

Work Order approved by inspector

Douglas Newton

Date: *10-16-2013*

Note: All cement will be Class A with 6% gel spacers between all plugs

Received
OCT 18 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

1701917A

WN 1115

Permit 47-17-1917

ELEV. 1242'

COAL 672'

12" HOLE

10.75"

1120'

8" HOLE
933'

7.00"



2053' BOTTOM HOLE PACKER 6x8



2060 ANCHOR PACKER 2x6

GAS 2083'
2171'

6" HOLE
125'

2.375" LINE PIPE

2178'

Received

OCT 18 2008

Office of Oil and Gas
WV Dept. of Environmental Protection

1701917P

Attachment – Form WW-4B for Well 10579:

Potential Plugging Contractors:

Yost Drilling
313 Steel Hill Rd.
Mount Morris, PA 15349

Viking Well Service
8113 Sissonville Drive
Sissonville, WV 25320

Coastal Drilling
130 Meadow Ridge Rd, STE 24
Mount Morris, PA 15349

Received

Group of Oil and Gas
Venture Capital Fund

HOPE NATURAL GAS

COMPANY

1701917P

SQS. N. 11	W. 8	Farm Name C. M. Tate	4/11	# 1000	WELL 1115
DRILLED 4/11/1909	19	ORIGINAL TEST 1,416,000	M. FROM	Injun	SANDS
REPAIRS	DATE	TEST AFTER		Drilled Deeper From To	Cleaning Out Driller
Tubed	5/13/1911	556,000	Tubed only with	2178'	2" Line Pipe

DATE OF SHOT	SIZE	SAND	RESULTS
None			

10" 1120	FEET. 8 1-4"	none	FEET. 6 5-8"	2053	FEET. 5 3-16"	-	FEET. TUBING 3"	FEET. LINER	FEET
DEPTH OF LAST GAS PAY	2171	FEET.	TOTAL DEPTH	2180	FEET.		TUBING 2"	2178	"
CSG. HEAD	IN.;	SAND;	IN.;	SAND;	IN.;	SAND;	IN.;	SAND;	IN.;

BAILED	No. DAYS	COST	B. M. OPERATOR	DEPTH BAILED	AMT. WATER	TEST BEFORE	TEST AFTER	CSG. HEAD	24 HR. ROCK	REMARKS
2/22/35			Open Flow Test by H.S.W.		Gals.		59.0 M			6 5/8" x 2" Anc. Po
			Well has never been bailed to Dec.			1936.				set in B. Lim
10/19/36			Special Test			25.1				2060' - 117'
4/24/41			Special Test by H.S.W. - open 4 hrs.			35.3				anc.
10/12/40			" " E.G.M.		"	27.7	5 10 Hg			3/8" Pk.
3-13-46			Special test - 4 1/2 hrs. FM 28,097		11 1/2" - 15 min pickup					8 1/8" x 6 5/8" B.H.
9/11/48	2	26.27	J.K.W.	2160	none	38.4	38.4		13 Hg	Pck. on 6 5/8"
12/10/48	1	25.70	"	"	"	29.1	29.1		13 "	Csg.
9/11/53	5	136.50	J.E.R.	2180	"	16.9	23.1		13 "	Salt Bridge
										Should drill to Gord. bef abd.

Received

OCT 18 1953

Office of Oil and Gas
Bureau of Land Management
Department of the Interior

WELL RECORD.

1701917P

C. M. Tate
 West Union District *Doddridge* Farm *102* Acres
 County *Wva* State
 Well No. *1115*
 Rig Commenced *Jan 18* 1909 }
 Rig Completed *Jan. 24* 1909 } *Hope Nat. Gas Co.* Contractor.
 Drilling Commenced *March 9* 1909 }
 Drilling Completed *April 11* 1909 } *J. H. Williams* Contractor.

ROCK FORMATION.	TOP	BOTTOM.	REMARKS.
<i>Native Coal</i>	<i>None</i>	<i>-</i>	
<i>Pittsburg Coal</i>	<i>672</i>	<i>-</i>	<i>Show.</i>
<i>Little Dunkard</i>	<i>1015</i>	<i>1045</i>	
<i>Big Dunkard</i>	<i>1110</i>	<i>1140</i>	
<i>Old Sand</i>	<i>1230</i>	<i>1260</i>	
<i>First Salt Sand</i>	<i>1355</i>	<i>1395</i>	
<i>Second " "</i>	<i>1530</i>	<i>1590</i>	
<i>Maxon</i>	<i>1967</i>	<i>2007</i>	
<i>Pencil Cave</i>	<i>2007</i>	<i>2013</i>	
<i>Big Lime</i>	<i>2013</i>	<i>2078</i>	
<i>Big Injun</i>	<i>2078</i>	<i>-</i>	
<i>Bar</i>	<i>2083</i>	<i>-</i>	
<i>"</i>	<i>2171</i>	<i>-</i>	
<i>Total Depth</i>	<i>2180</i>	<i>-</i>	

Contractor did not put as much 6 7/8" casing in well as we expected. Some of casing was new and some B.H. lighter weight.

No 8 1/2" casing used.

10" casing not required to be pulled in Injun well.

1st Pay. Mr. 2d D. 6 1/2" - 2"

*2180
672
1508*

*Driller
J. H. Zimmerman
A. Dowler.*

*Tool Dresser.
Hess Hadden
Amos Cooper.*

1 B.H. Casing 8 1/2 x 6 7/8" set at 2053 ft.

CASING RECORD.

Size.	Charged to Well.		Put in Well.		Pulled Out.		Left in Well.		Transferred Before Completion.		Left at Well, Not in Use.	
	Feet.	In.	Feet.	In.	Feet.	In.	Feet.	In.	Feet.	In.	Feet.	In.
<i>10"</i>	<i>1172</i>	<i>8</i>	<i>1120</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>1120</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>52</i>	<i>8</i>
<i>8 1/2"</i>	<i>1713</i>	<i>2</i>	<i>0</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>1713</i>	<i>2</i>
<i>6 7/8"</i>	<i>2455</i>	<i>4</i>	<i>2053</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>2053</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>402</i>	<i>4</i>

Production }
 First 24 hours }

Approved by

J. H. Williams

Supt.

Office of Oil and Gas
 and Dept. of Environmental Protection

Proof—Sum of Three right hand columns equals First or "Charged to Well."
 Use as many sheets as necessary to make a complete record.
 In making out this record please use copying ink or an indelible pencil.

Received

OCT 18 2013

11 E. W. 8 DISTRICT *Shirley Walsh*

CASING AND TUBING

SIZE	PUT IN WELL	PULLED	CEMENTED
------	-------------	--------	----------

11

13 In. Casing	4121	Date
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10 In. Casing	1120	-	Size Casing
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8 1/2 in. Casing	3153	Top	Ft.
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6 1/2 in. Casing	2053	Bottom	Ft.
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5 1/2 In. Casing

2 In. Tubing	21782'	
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[illegible]

In. Tubing					
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SHOOTING

DATE	QTS.	SAND	VOLUME BEFORE	VOLUME AFTER
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2-1

100

100

[illegible]

100-443887-100

PACKERS

[illegible]

12	1909	66/10	"	2"	30	85	100	110	120	150	1,416,480	"	612	4.	2060.
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Oct. 19, 1936	17.0	Water	1.1	26.100	"
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[illegible][illegible]

DATE	PARCEL	LAND
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DATE	BARRELS	BAND
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[illegible]

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1. *Chlorophyll a* (Chl *a*)

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Lichtenthal and Whistler (1973).

Journal of Management Education

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1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

—

1701917

1701917P

Elev. Sand Map No. F= 1115
 Map: OUTSIDE WELLS
 Dist. Salem **COMPLETION REPORT**
 Serial No. Map Sq. N. S. 11 E. W. 8
 Commenced Completed 4/11/09 Depth
 Farm C. M. Tate Lease No. 4404, Royalty \$200/yr S.P.O.I.
 Operator Hope
 Dist. West Union County Doddridge State West Virginia

OPEN FLOW TEST

DATE	ROCK PRESS.	VOLUME	SAND

CASING AND TUBING

	SIZE	AMOUNT	SIZE	AMOUNT

LEASE No.

Form 1146-6M-5-48

Received

Office of Oil and Gas
 WV Dept. of Environmental Protection

1701917 P

WW-4A
Revised 6-07

1) Date: October 8, 2013

2) Operator's Well Number
1115

3) API Well No.: 47 - 017 - 01917

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:

(a) Name Franklin Butler ✓
Address 2567 Spring Hill Road
Staunton, VA 24401

(b) Name
Address

(c) Name
Address

6) Inspector Douglas Newlon
Address 4060 Dutchman Road
McFarlan, WV 26148
Telephone 304-932-8049

5) (a) Coal Operator

Name None of Declaration
Address

(b) Coal Owner(s) with Declaration

Name None of Declaration
Address

Name
Address

(c) Coal Lessee with Declaration

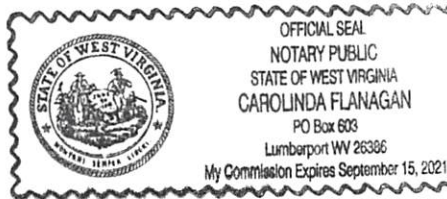
Name None of Declaration
Address

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator

CNX Gas Company LLC

By:

Jeremy Jones

Its:

Designated Agent - General Manager, WV Gas Operations

Address

P.O. Box 1248

Telephone

Jane Lew, WV 26378

304-884-2009 - Amanda Wright, Permitting Supervisor

[Signature]

Received

Subscribed and sworn before me this 8th day of October 2013

My Commission Expires 9/15/2021

Notary Public

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

Office of Oil and Gas
WV Dept. of Environmental Protection

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name CNX Gas Company LLC OP Code 494458046

Watershed Middle Island Creek Quadrangle West Union

Elevation 1245.28' County Doddridge District West Union

Description of anticipated Pit Waste: Fluids associated with the plugging of existing gas wells

Will a synthetic liner be used in the pit? Yes - 20 ml

Proposed Disposal Method For Treated Pit Wastes:

- ☒ Land Application
☐ Underground Injection (UIC Permit Number _____)
☐ Reuse (at API Number _____)
☐ Off Site Disposal (Supply form WW-9 for disposal location)
☐ Other (Explain _____)

Proposed Work For Which Pit Will Be Used:

- ☐ Drilling ☐ Swabbing
☐ Workover ☒ Plugging
☐ Other (Explain _____)

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

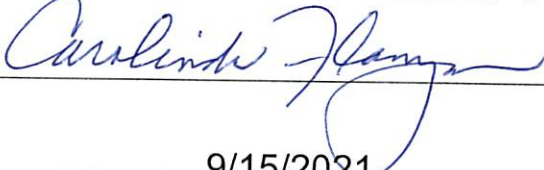
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature 

Company Official (Typed Name) Jeremy Jones

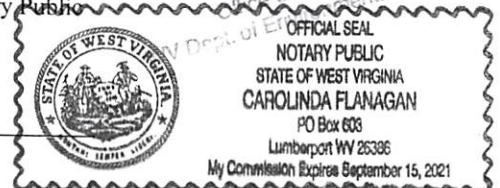
Company Official Title Designated Agent - General Manager WV Gas Operations

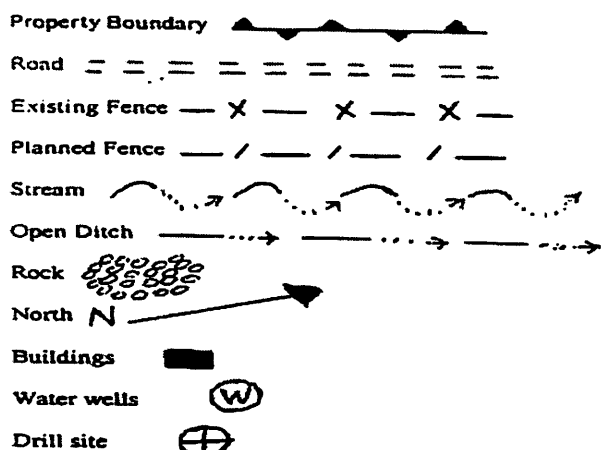
Subscribed and sworn before me this 10th day of October, 2013



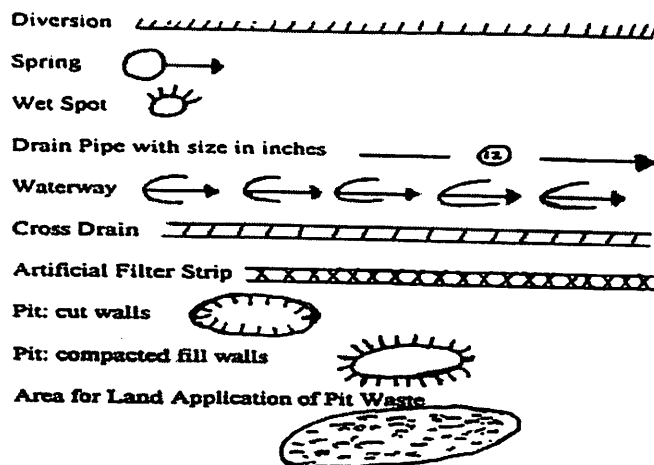
Notary Public

My commission expires 9/15/2021





LEGEND



Proposed Revegetation Treatment: Acres Disturbed 55.83 acres Prevegetation pH 6.5

Lime according to pH test Tons/acre or to correct to pH 7.0

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch hay or straw @ 2 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre
Orchard Grass	25
Birdsfoot Trefoil	15
Ladino Clover	10

Seed Type	Area II lbs/acre
Orchard Grass	25
Birdsfoot Trefoil	15
Ladino Clover	10

Attach:

Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Douglas NewberComments: Reclaim to W. Dep regulations
install pits as needed

Received

Title: Oil & Gas impactionDate: 10-16-2013

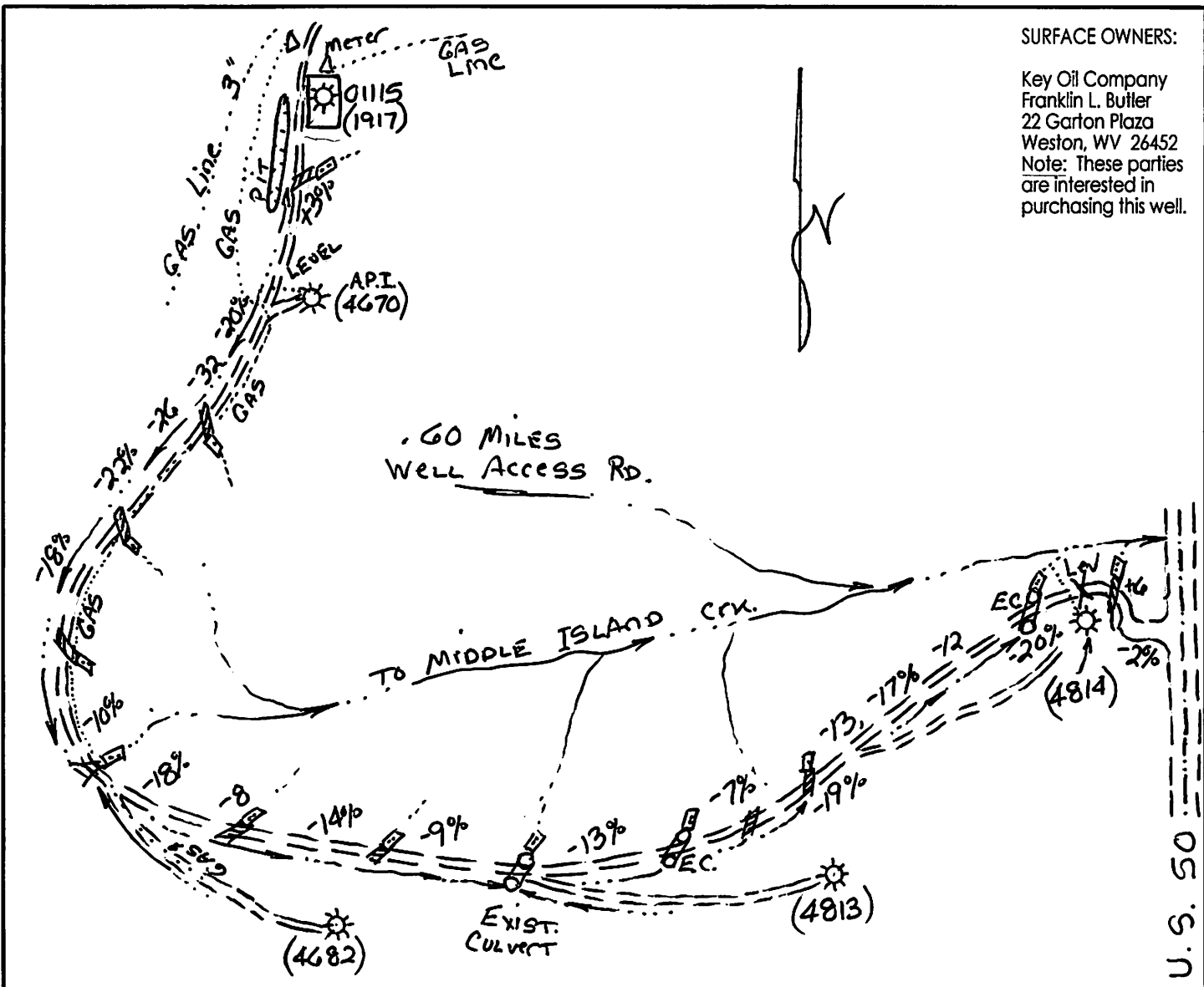
Field Reviewed?

☐ Yes☒ No

Office of Oil and Gas

SURFACE OWNERS:

Key Oil Company
Franklin L. Butler
22 Garton Plaza
Weston, WV 26452
Note: These parties
are interested in
purchasing this well.



Additional Notes:

This existing well road climbs from the west side of Route 50 for .60 miles to the small location on top the ridge. SEVERAL GAS LINES will be encountered in and along this route.

prepared by:

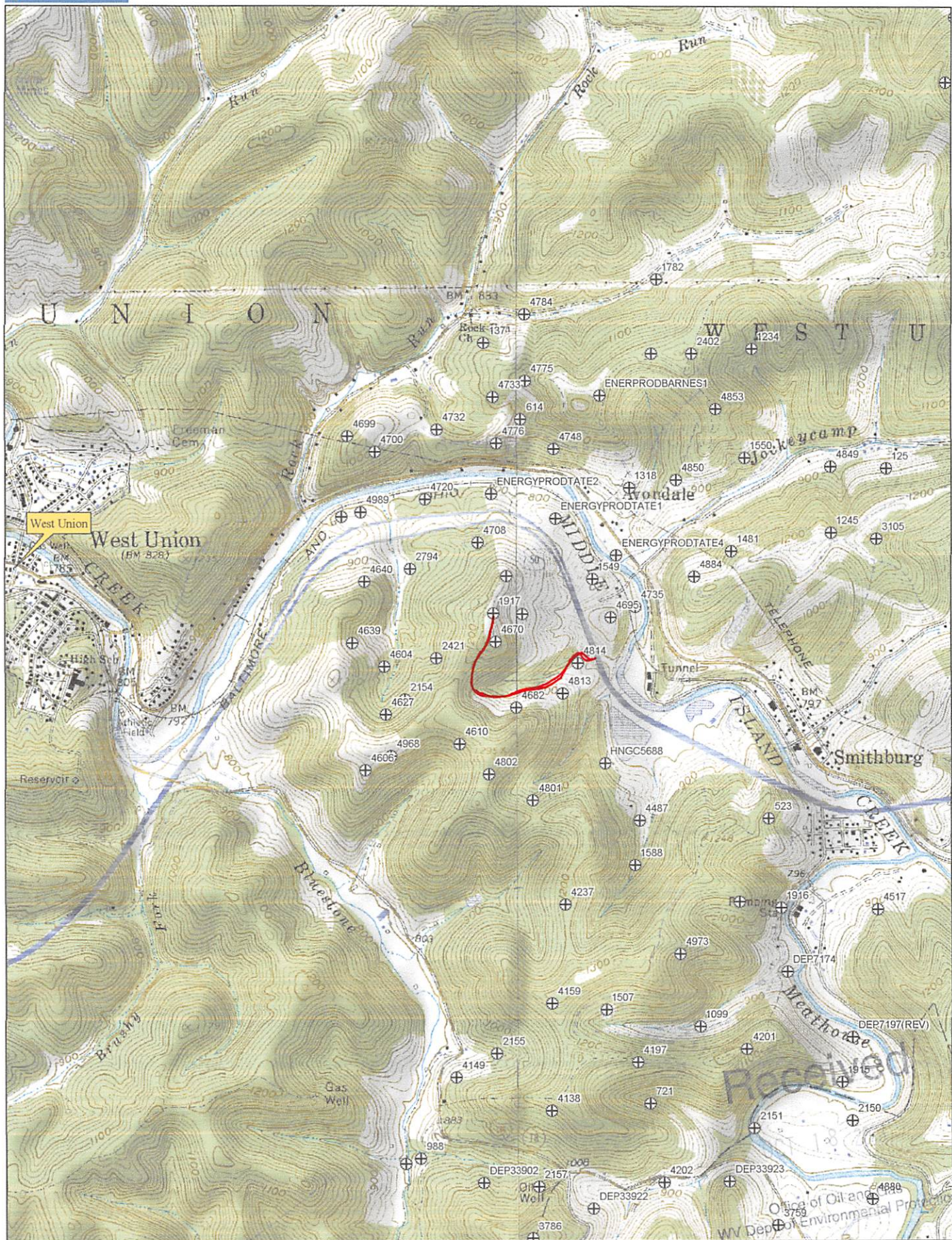
LAND SURVEYING SERVICES
21 Cedar Lane
Bridgeport, WV 26330
304-842-2018 or 5762

DRAWINGS TO ACCOMPANY FORM WW-9

CNX Gas Company LLC
P. O. Box 1248
Jane Lew, WV 26378

WATERSHED: Middle Island Creek
DISTRICT: West Union CO. Doddridge
QUADRANGLE: West Union O.W.N. DTI 01115
DATE: May 23, 2013 PG. 1 OF 3

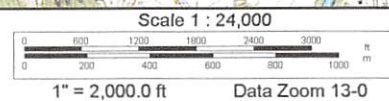
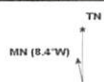
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West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-017-01917 WELL NO.: DTI 01115

FARM NAME: C. M. TATE

RESPONSIBLE PARTY NAME: CNX GAS COMPANY LLC

COUNTY: DODDRIDGE DISTRICT: WEST UNION

QUADRANGLE: WEST UNION 7.5'

SURFACE OWNER: KEY OIL COMPANY, ET. AL. 22 GARTON PLAZA, WESTON, WV 26452

ROYALTY OWNER: JANET DICKERSON, ET. AL.

UTM GPS NORTHING: 4,349,490.04 METERS

UTM GPS EASTING: 521,464.47 METERS GPS ELEVATION: 379.56 METERS

1245.28 FT

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 Coordinate Units: meters Altitude: Height above mean sea level (MSL) - meters
2. Accuracy to Datum - 3.05 meters
3. Data Collection Method: Survey Grade GPS : Post Processed Differential Real-Time Differential
Mapping Grade GPS X : Post Processed Differential X Real-Time Differential

I the undersigned hereby state this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulation issued and prescribed by the Office of Oil and Gas.

Signature J. Michael Evans
J. Michael Evans, PS

Title WV Professional Surveyor #900

Date 05/22/13

CNX USE: NAD 27 WV NORTH SPC: 01115 = 291,815.47' 1,645,880.07' ELEV. = 1,245.28'

Received
OCT 18 2013
Received
Office of Oil and Gas
WV Dept. of Environmental Protection
Office of Oil and Gas
WV Dept. of Environmental Protection